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| --- | --- | --- | --- | --- |
|  | **4** | **3** | **2** | **1** |
| **CED.1-**  **Create an equation and use it to solve a problem** | * The piecewise function is formatted correctly (with the domain next to each part of the function). * The piecewise function is made of 4 or more functions and at least 2 of the functions are quadratic. * All of your given work is organized/easy to read. * The work shown to create your piecewise equation is accurate and every step is shown. * The work to prove that your model is an accurate representation utilizes 6 points that overlap from the original data to your piecewise function. * The work to prove continuity for your piecewise function is shown for every transition point. | * The piecewise function is formatted with minor errors. * The piecewise function is formatted correctly, made of 3 functions and one of the functions is a quadratic. * Most of your given work is organized/easy to read. * The work shown to create your piecewise equation has minor errors and every step is shown. * The work to prove that your model is an accurate representation utilizes 4 points that overlap from the original data to your piecewise function. * The work to prove continuity for your model is shown for every transition points and for each function meeting at that point. | * The piecewise function is formatted with major errors. * The piecewise function is made of 2 functions and one of the functions is a quadratic. * Some of your given work is organized/easy to read. * The work shown to create your piecewise equation has minor errors and not every step is shown. * The work to prove that your model is an accurate representation utilizes 2 points that overlap from the original data to your piecewise function. * The work to prove continuity for your model is shown for most transition points and for most functions meeting at that point. | * The piecewise function is not formatted correctly. * The piecewise function is made of 2 functions and neither is quadratic. * None of your given work is organized/easy to read. * The work shown to create your piecewise equation has major errors and no step are shown. * The work to prove that your model is an accurate representation utilizes 0-1 points that overlap from the original data to your piecewise function. * The work to prove continuity for your model is shown for few of the transition points and for few of the functions meeting at that point. |
| **IF.7-**  **Graph a function and show key feature** | * The graph has a title, axis labeled, key points labeled (transition points & maximums/minimums). * Both graphs are included within the math report. |  | * The model graph is missing 1-2 of the following: a title, axis labeled, key points labeled (transition points & maximums/minimums). * Both graphs are included within the math report. | * The model graph is missing 3 or more of the following: a title, axis labeled, key points labeled (transition points & maximums/minimums) * One or both graphs are missing from the math report. |
| **IC.6 –**  **Evaluate reports based on data** | * The justification of the continuity proof references the work provided to create a clear picture of how each point ensures continuity. * The justification of the accuracy proof references the work provided to create a clear picture of how each point ensures continuity. * The data analysis claim is clear and can easily be understood when looking at the created graph. * The data analysis thoroughly and accurately addresses each inflection point/maximum or **minimum in terms of the context of your social concern**. (citing key historical events where necessary in APA-with reference page) | * The justification of the continuity proof creates a clear picture of how each point ensures continuity. * The justification of the accuracy proof creates a clear picture of how each point ensures continuity. * The data analysis claim is clear and can be understood when looking at the created graph. * The data analysis thoroughly addresses each inflection point/maximum or minimum in terms of the context of your social concern. (citing key historical events where necessary) | * The justification of the continuity proof creates a picture of how each point ensures continuity, but is a little confusing. * The justification of the accuracy proof creates a picture of how each point ensures continuity. * The data analysis claim can be understood when looking at the created graph. * The data analysis addresses most inflection points/maximums or minimums in terms of the context of your social concern. | * The justification of the accuracy proof does not create a picture of how each point ensures continuity. * The justification of the accuracy proof does not create a picture of how each point ensures continuity. * The data analysis claim is unclear and has nothing to do with the graph created. * The data analysis addresses few inflection points/maximums or minimums. |